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A collaborative engineering environment for 21st c avionics

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Abstract:
Collaborative engineering and virtual prototyping is the application of advance distributed modeling and simulation and engineering tools in an integrated en to support technology development, system design, performance, cost, and p trade-off analyses throughout the entire product and system engineering life Sensors and Information Directorates, Air Force Research Laboratory (AFRL) initiated a major effort to implement a Collaborative Engineering Environment provide the infrastructure and development methodology required for afforda timely avionics for the 21st century warfighter. The CEE concept is a major c change in the technology development process that involves applying state-o simulation and information sharing technology to the way we do business. CE partnerships among the laboratories, industry, and the warfighter to accelera development and transition of leading edge technology to the operational wea systems

Index Terms:
CAD aerospace computing digital simulation distributed processing military avioni century avionics 21st century warfighter Air Force Research Laboratory advanced c engineering tools advanced distributed modeling tools advanced distributed simulatio collaborative engineering environment information sharing technology integrated envi operational weapon systems system design technology development virtual prototy

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Model-based architecture for the Intranet.

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Abstract
We propose a system called **CEE** (Cooperative Environment for Enterprise-computing) which is based on a new architecture for the Intranet. **CEE** works based on the enterprise model which consists of the organization, business function/process conforming to IDEFO, and resources such as persons and documents. **CEE** integrates enterprise information and applications based on the enterprise model and enable the following functions on the WWW. 1) **CEE** automatically generates and maintains WWW pages and links according to business objects in the enterprise model. 2) **CEE** manages documents linked to the enterprise model and provides check-in/out and version control functions. 3) **CEE** promotes concurrent engineering by providing notification on the creation or modification of the output

document of a process to the succeeding processes. 4) **CEE** provides document-based project management on the IDEFO chart in addition to traditional time-based project management on the Gantt chart. (9 refs).

Descriptors

business-communication; business-data-processing; client-server- systems; concurrent-engineering; Internet; local-area-networks; management-information-systems; network-operating-systems.

Keywords

model based architecture; Intranet; **CEE;** Cooperative Environment for Enterprise computing; enterprise model; business function; IDEFO; enterprise information; WWW; WWW pages; business objects; version control; concurrent engineering; document based project management; Gantt chart.

Classification codes

C7100 (Business and administration).
C6150N (Distributed systems software).

Copyright statement

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Model-based architecture for the Intranet

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Abstract:
We propose a system called CEE (Cooperative Environment for Enterprise-cor which is based on a new architecture for the Intranet. CEE works based on th model which consists of the organization, business function/process conformit IDEFO, and resources such as persons and documents. CEE integrates enterp information and applications based on the enterprise model and enable the fo functions on the WWW. 1) CEE automatically generates and maintains WWW links according to business objects in the enterprise model. 2) CEE manages linked to the enterprise model and provides check-in/out and version control 3) CEE promotes concurrent engineering by providing notification on the crea modification of the output document of a process to the succeeding processes provides document-based project management on the IDEFO chart in additior traditional time-based project management on the Gantt chart

Index Terms:
Internet business communication business data processing client-server systems c engineering local area networks management information systems network operatin CEE Cooperative Environment for Enterprise-computing Gantt chart IDEFO Intrane WWW pages business function business objects concurrent engineering document project management enterprise information enterprise model model-based architectu control

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